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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/005,846	12/03/2001	Khuy V. Nguyen	2000.83	1022	
29494 75	90 06/24/2003				
ROBERT H. HAMMER III, P.C. 3121 SPRINGBANK LANE			EXAMI	EXAMINER	
SUITE I CHARLOTTE, I	NC 28226		CHANG, V	CHANG, VICTOR S	
			ART UNIT	PAPER NUMBER	
			1771		
			DATE MAILED: 06/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Арр	ication No.	Applicant(s)	
Office Action Sum		10/005,846		NGUYEN ET AL.	
		Exar	niner	Art Unit	
		Victo	r S Chang	1771	
Period fo	The MAILING DATE of this comm or Reply	nunication appears o	n the cover shee	et with the correspondence address	
- Exter after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOR MAILING DATE OF THIS COMMINION of time may be available under the provisions of time may be available under the provisions (6) MONTHS from the mailing date of this operiod for reply specified above is less than this period for reply is specified above, the maximum et or reply within the set or extended period for reply received by the Office later than three mond patent term adjustment. See 37 CFR 1.704(b)	ONICATION, sions of 37 CFR 1.136(a). In communication. It (30) days, a reply within the m statutory period will apply reply will, by statute, cause the context of the cont	no event, however, ma e statutory minimum of and will expire SIX (6) I	ly a reply be timely filed f thirty (30) days will be considered timely. MONTHS from the mailing date of this communication	
1)	Responsive to communication(s) filed on			
2a)□	This action is FINAL .				
3)		2b)⊠ This actio	n is non-final.		
	closed in accordance with the propriet of Claims	actice under <i>Ex part</i>	cept for formal r e <i>Quayl</i> e, 1935	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.	
4) 🔯 (Claim(s) <u>1-11</u> is/are pending in th	ne application.			
	a) Of the above claim(s) is		Consideration		
5) 🗌 (Claim(s) is/are allowed.	and the state of t	consideration.		
	Claim(s) <u>1-11</u> is/are rejected.				
	Claim(s) is/are objected to.				
	Claim(s) are subject to rest		n roquiromant		
A pplicatio	n Papers	and district circuit	ir requirement.		
9)[] Ti	ne specification is objected to by t	the Examiner.			
10)∐ Th	ne drawing(s) filed on is/ard	e: a)□ accepted or b	objected to by	the Evaminor	
	Applicant may not request that any o	bjection to the drawing	ı(s) be held in abo	2V2DC6	
11) 🗌 Tr	e proposed drawing correction fil	ed on is: a)[approved b)	disapproved by the Examiner	
	ir approved, corrected drawings are r	required in reply to this	Office action.	aloupproved by the Examiner.	
12) 🗌 Th	e oath or declaration is objected	to by the Examiner.			
	der 35 U.S.C. §§ 119 and 120				
13) 🗌 🗛	cknowledgment is made of a clair	m for foreign priority	under 35 H.S.C.	8 119(a) (d) or (f)	
a) <u></u> □	All b) Some * c) None of:	5 ,,		. § 119(a)-(u) or (i).	
	Certified copies of the priority		en received		
2.	Certified copies of the priority	y documents have he	en received in	Application No.	
3.	Copies of the certified copies	of the priority documents	nente have hor	a received to the state of the	
* See	the attached detailed Office action	on for a list of the ce	rtified copies no	t received	
14)∐ Ack	nowledgment is made of a claim	for domestic priority	under 35 U.S.C.	. § 119(e) (to a provisional application	
a) L	The translation of the foreign la nowledgment is made of a claim	nguage provisional a	application has b		
raciment(s)		,		- 33 120 ana/01 121.	
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (F on Disclosure Statement(s) (PTO-1449) P	PTO-948) Paper No(s) <u><i>0528</i></u> .	4) Interview 5) Notice of 6) Other:	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	
Patent and Tradem 0-326 (Rev. 04	ark Office	Office Action Summ			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being 2. indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 3, the Examiner suggests delete "less than 10 percent by blend weight" at line 3, and add --, with the elastomer comprising less than 10 percent by blend weight-- after "thereof" at line 6.

For claims 4, 5 and 8, line 2 of each claim, the term "Gurley" is vague and indefinite, the Examiner suggests add --air permeability-- after "Gurley". Additionally, for claims 4 and 5, the absence of the volume renders the claims vague and indefinite. For the purpose of this Office action, it is presumed to be 10 cc.

In claim 8, line 1, the phrase "improving a membrane" is vague and indefinite, i.e., it would not be clear to one of ordinary skill in the art as to what property is being improved. Clarification is requested.

In claim 8, line 8, please change "and the elastomer" to --with the elastomer--. In claim 9, line 2, change "blend" to --elastomer--. Also, at line 3, delete "of the elastomer".

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In claims 10 and 11, line 1 of each claim, please change "blend" to --the elastomer--.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' admitted prior in view of Palomo et al. (US 5938874).

It is noted that Applicants appear to have admitted that it is known art that a microporous sheet can be made of polyolefins, such as polypropylene and polyethylene (Specification, page 3, first paragraph).

For claims 9-11, the admitted prior art lacks an express teaching that the mechanical property of the polyolefin membrane can be improved by using a blend of polyolefin and an elastomer. However, it is noted that Palomo's invention is related to a microporous film. In one embodiment, Palomo expressly teaches that a flexible and resilient microporous film comprises polyethylenes, polypropylenes, thermoplastic elastomers, etc., or blends of these polymers (column 4, lines 29-34). Further, it is believed that thermoplastic elastomers inherently encompass the commonly known ethylene-propylene rubber (EPR) and ethylene-propylene-diene terpolymer rubber (EPDM). As such, it would have been obvious to one of ordinary skill in the art to

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modify the admitted microporous film with a suitable blend of polyolefin and thermoplastic elastomer such as EPR and EPDM, motivated by the desire to improve the flexibility and resiliency of the film. Regarding the amount of elastomer used in the blend, it is also believed to be either inherently disclosed by Palomo, or an obvious optimization to one skilled in the art, motivated by the desire to obtain optimal required film flexibility and resiliency.

Claims 1-3 and 6-8 essentially mirror the product claims 9-11 and employ only a conventional method step, i.e., providing, and as such are rejected.

For claim 4 and 5, since the scope of the inventions, i.e., microporous membranes, taught by the prior art and Palomo are essentially the same as the instant claimed invention, it is believed that a suitable air permeability is also an obvious optimization to one skilled in the art, motivated by the desire to retain the proper membrane functionalities such as breathability and liquid barrier property, etc.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor S Chang whose telephone number is 703-605-4296. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H Morris can be reached on 703-308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

VSC June 23, 2003

DANIEL ZIRKER PRIMARY EXAMINER GROUP 1990 1700

Daniel Zinken